

# **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/590,940  
Source: IFWP  
Date Processed by STIC: 9/6/06

***ENTERED***

## CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/590,940

CRF Edit Date: 9/6/06  
Edited by: AR

\_\_\_\_\_ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

\_\_\_\_\_ Corrected the SEQ ID NO. Sequence numbers edited were:  
\_\_\_\_\_

\_\_\_\_\_ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:  
\_\_\_\_\_

\_\_\_\_\_ Deleted: \_\_\_\_\_ invalid beginning/end-of-file text ; \_\_\_\_\_ page numbers

J

\_\_\_\_\_ Inserted mandatory headings/numeric identifiers, specifically:  
<2207 in sequence 3

\_\_\_\_\_ Moved responses to same line as heading/numeric identifier, specifically:  
\_\_\_\_\_

\_\_\_\_\_ Other:  
\_\_\_\_\_



IFWP

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/590,940

DATE: 09/06/2006

TIME: 18:58:06

Input Set : A:\PTO.AMC.txt  
 Output Set: N:\CRF4\09062006\J590940.raw

3 <110> APPLICANT: Consiglio Nazionale delle Ricerche  
 4 Domenico GERACI  
 5 Angela BONURA  
 6 Paolo COLOMBO  
 8 <120> TITLE OF INVENTION: Fusion proteins comprising modified allergens of the NS-LTPS  
 9 family, use thereof and pharmaceutical compositions comprising  
 10 the same  
 12 <130> FILE REFERENCE: 4161-18 / BW352R  
 C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/590,940  
 15 <141> CURRENT FILING DATE: 2006-08-28  
 17 <150> PRIOR APPLICATION NUMBER: PCT/IB2005/050714  
 18 <151> PRIOR FILING DATE: 2005-02-28  
 20 <150> PRIOR APPLICATION NUMBER: IT RM2004A000103  
 21 <151> PRIOR FILING DATE: 2004-02-27  
 23 <160> NUMBER OF SEQ ID NOS: 7  
 25 <170> SOFTWARE: MS Word  
 27 <210> SEQ ID NO: 1  
 28 <211> LENGTH: 732  
 29 <212> TYPE: DNA  
 30 <213> ORGANISM: Parietaria judaica  
 32 <220> FEATURE:  
 33 <221> NAME/KEY: CDS  
 34 <222> LOCATION: (1)..(729)  
 36 <220> FEATURE:  
 37 <221> NAME/KEY: misc\_feature  
 38 <222> LOCATION: (10)..(12) /  
 39 <223> OTHER INFORMATION: n is a, c, g, or t  
 41 <220> FEATURE:  
 42 <221> NAME/KEY: misc\_feature  
 43 <222> LOCATION: (40)..(42) /  
 44 <223> OTHER INFORMATION: n is a, c, g, or t  
 46 <220> FEATURE:  
 47 <221> NAME/KEY: misc\_feature  
 48 <222> LOCATION: (85)..(90) /  
 49 <223> OTHER INFORMATION: n is a, c, g, or t  
 51 <220> FEATURE:  
 52 <221> NAME/KEY: misc\_feature  
 53 <222> LOCATION: (148)..(150) /  
 54 <223> OTHER INFORMATION: n is a, c, g, or t  
 56 <220> FEATURE:  
 57 <221> NAME/KEY: misc\_feature  
 58 <222> LOCATION: (154)..(156) /  
 59 <223> OTHER INFORMATION: n is a, c, g, or t

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/590,940

DATE: 09/06/2006  
TIME: 18:58:06

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF4\09062006\J590940.raw

61 <220> FEATURE:  
62 <221> NAME/KEY: misc\_feature  
63 <222> LOCATION: (223)..(225)  
64 <223> OTHER INFORMATION: n is a, c, g, or t  
66 <220> FEATURE:  
67 <221> NAME/KEY: misc\_feature  
68 <222> LOCATION: (271)..(273)  
69 <223> OTHER INFORMATION: n is a, c, g, or t  
71 <220> FEATURE:  
72 <221> NAME/KEY: misc\_feature  
73 <222> LOCATION: (322)..(324)  
74 <223> OTHER INFORMATION: n is a, c, g, or t  
76 <220> FEATURE:  
77 <221> NAME/KEY: misc\_feature  
78 <222> LOCATION: (352)..(354)  
79 <223> OTHER INFORMATION: n is a, c, g, or t  
81 <220> FEATURE:  
82 <221> NAME/KEY: misc\_feature  
83 <222> LOCATION: (397)..(402)  
84 <223> OTHER INFORMATION: n is a, c, g, or t  
86 <220> FEATURE:  
87 <221> NAME/KEY: misc\_feature  
88 <222> LOCATION: (460)..(462)  
89 <223> OTHER INFORMATION: n is a, c, g, or t  
91 <220> FEATURE:  
92 <221> NAME/KEY: misc\_feature  
93 <222> LOCATION: (466)..(468)  
94 <223> OTHER INFORMATION: n is a, c, g, or t  
96 <220> FEATURE:  
97 <221> NAME/KEY: misc\_feature  
98 <222> LOCATION: (535)..(537)  
99 <223> OTHER INFORMATION: n is a, c, g, or t  
101 <220> FEATURE:  
102 <221> NAME/KEY: misc\_feature  
103 <222> LOCATION: (583)..(585)  
104 <223> OTHER INFORMATION: n is a, c, g, or t  
106 <400> SEQUENCE: 1  
W--> 108 gag gag gct nnn ggg aaa gtg gtg cag gat ata atg ccg nnn ctg cat 48  
109 Glu Glu Ala Xaa Gly Lys Val Val Gln Asp Ile Met Pro Xaa Leu His  
110 1 5 10 15  
112 ttc gtg aag ggg gag gag aag gag ccg tcg aag gag nnn nnn agc ggc 96  
113 Phe Val Lys Gly Glu Lys Glu Pro Ser Lys Glu Xaa Xaa Ser Gly  
114 20 25 30  
116 acg aag aag ctg agc gag gag gtg aag acg acg gag cag aag agg gag 144  
117 Thr Lys Lys Leu Ser Glu Glu Val Lys Thr Thr Glu Gln Lys Arg Glu  
118 35 40 45  
120 gcc nnn aag nnn ata gtg cgc gcc acg aag ggc atc tcc ggt atc aaa 192  
121 Ala Xaa Lys Xaa Ile Val Arg Ala Thr Lys Gly Ile Ser Gly Ile Lys  
122 50 55 60

RAW SEQUENCE LISTING  
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Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF4\09062006\J590940.raw

124 aat gaa ctt gtc gcc gag gtc ccc aag aag nnn gat att aag acc act	240
125 Asn Glu Leu Val Ala Glu Val Pro Lys Lys Xaa Asp Ile Lys Thr Thr	
126 65 70 75 80	
128 ctc ccg ccc atc acc gcc gac ttc gac tgc nnn aag atc caa agt act	288
129 Leu Pro Pro Ile Thr Ala Asp Phe Asp Cys Xaa Lys Ile Gln Ser Thr	
130 85 90 95	
132 att ttc aga ggt tac tat gga ttc caa gaa acc nnn ggg act atg gtg	336
133 Ile Phe Arg Gly Tyr Tyr Gly Phe Gln Glu Thr Xaa Gly Thr Met Val	
134 100 105 110	
136 aga gcg ctg atg ccg nnn ctg ccg ttc gtg cag ggg aaa gag aaa gag	384
137 Arg Ala Leu Met Pro Xaa Leu Pro Phe Val Gln Gly Lys Glu Lys Glu	
138 115 120 125	
140 ccg tca aag ggg nnn nnn agc ggc gcc aaa aga ttg gac ggg gag acg	432
141 Pro Ser Lys Gly Xaa Xaa Ser Gly Ala Lys Arg Leu Asp Gly Glu Thr	
142 130 135 140	
144 aag acg ggg ccg cag agg gtg cac gct nnn gag nnn atc cag acc gcc	480
145 Lys Thr Gly Pro Gln Arg Val His Ala Xaa Glu Xaa Ile Gln Thr Ala	
146 145 150 155 160	
148 atg aag act tat tcc gac atc gac ggg aaa ctc gtc agc gag gtc ccc	528
149 Met Lys Thr Tyr Ser Asp Ile Asp Gly Lys Leu Val Ser Glu Val Pro	
150 165 170 175	
152 aag cac nnn ggc atc gtt gac agc aag ctc ccg ccc att gac gtc aac	576
153 Lys His Xaa Gly Ile Val Asp Ser Lys Leu Pro Pro Ile Asp Val Asn	
154 180 185 190	
156 atg gac nnn aag aca gtt gga gtg gtt cct cgg caa ccc caa ctt cca	624
157 Met Asp Xaa Lys Thr Val Gly Val Val Pro Arg Gln Pro Gln Leu Pro	
158 195 200 205	
160 gtc tct ctc cgt cat ggt ccc gtc acg ggc cca agt gat ccc gcc cac	672
161 Val Ser Leu Arg His Gly Pro Val Thr Gly Pro Ser Asp Pro Ala His	
162 210 215 220	
164 aaa gca cgg ttg gag aga ccc cag att aga gtt ccg ccc ccc gca ccc	720
165 Lys Ala Arg Leu Glu Arg Pro Gln Ile Arg Val Pro Pro Pro Ala Pro	
166 225 230 235 240	
168 gaa aaa gcc taa	732
169 Glu Lys Ala	
172 <210> SEQ ID NO: 2	
173 <211> LENGTH: 243	
174 <212> TYPE: PRT	
175 <213> ORGANISM: Parietaria judaica	
178 <220> FEATURE:	
179 <221> NAME/KEY: misc_feature	
180 <222> LOCATION: (4)..(4)	
181 <223> OTHER INFORMATION: Xaa at location 4 stands for Lys, Asn, Arg, Ser, Thr, Ile, Met,	
182 Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys or Phe	
184 <220> FEATURE:	
185 <221> NAME/KEY: misc_feature	
186 <222> LOCATION: (14)..(14)	
187 <223> OTHER INFORMATION: Xaa at location 14 stands for Lys, Asn, Arg, Ser, Thr, Ile, Met,	
188 Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys or Phe	

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190 <220> FEATURE:  
191 <221> NAME/KEY: misc\_feature  
192 <222> LOCATION: (29)..(29)  
193 <223> OTHER INFORMATION: Xaa at location 29 stands for Lys, Asn, Arg, Ser, Thr, Ile,  
Met,  
194 Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys or Phe  
196 <220> FEATURE:  
197 <221> NAME/KEY: misc\_feature  
198 <222> LOCATION: (30)..(30)  
199 <223> OTHER INFORMATION: Xaa at location 30 stands for Lys, Asn, Arg, Ser, Thr, Ile,  
Met,  
200 Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys or Phe  
202 <220> FEATURE:  
203 <221> NAME/KEY: misc\_feature  
204 <222> LOCATION: (50)..(50)  
205 <223> OTHER INFORMATION: Xaa at location 50 stands for Lys, Asn, Arg, Ser, Thr, Ile,  
Met,  
206 Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys or Phe  
208 <220> FEATURE:  
209 <221> NAME/KEY: misc\_feature  
210 <222> LOCATION: (52)..(52)  
211 <223> OTHER INFORMATION: Xaa at location 52 stands for Lys, Asn, Arg, Ser, Thr, Ile,  
Met,  
212 Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys or Phe  
214 <220> FEATURE:  
215 <221> NAME/KEY: misc\_feature  
216 <222> LOCATION: (75)..(75)  
217 <223> OTHER INFORMATION: Xaa at location 75 stands for Lys, Asn, Arg, Ser, Thr, Ile,  
Met,  
218 Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys or Phe  
220 <220> FEATURE:  
221 <221> NAME/KEY: misc\_feature  
222 <222> LOCATION: (91)..(91)  
223 <223> OTHER INFORMATION: Xaa at location 91 stands for Lys, Asn, Arg, Ser, Thr, Ile,  
Met,  
224 Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys or Phe  
226 <220> FEATURE:  
227 <221> NAME/KEY: misc\_feature  
228 <222> LOCATION: (108)..(108)  
229 <223> OTHER INFORMATION: Xaa at location 108 stands for Lys, Asn, Arg, Ser, Thr, Ile,  
Met,  
230 Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys or Phe  
232 <220> FEATURE:  
233 <221> NAME/KEY: misc\_feature  
234 <222> LOCATION: (118)..(118)  
235 <223> OTHER INFORMATION: Xaa at location 118 stands for Lys, Asn, Arg, Ser, Thr, Ile,  
Met,  
236 Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys or Phe  
238 <220> FEATURE:  
239 <221> NAME/KEY: misc\_feature  
240 <222> LOCATION: (133)..(133)  
241 <223> OTHER INFORMATION: Xaa at location 133 stands for Lys, Asn, Arg, Ser, Thr, Ile,  
Met,

242 Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys or Phe  
244 <220> FEATURE:  
245 <221> NAME/KEY: misc\_feature  
246 <222> LOCATION: (134)..(134)  
247 <223> OTHER INFORMATION: Xaa at location 134 stands for Lys, Asn, Arg, Ser, Thr, Ile,  
Met,

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/590,940

DATE: 09/06/2006  
TIME: 18:58:06

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF4\09062006\J590940.raw

248 Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys or Phe  
 250 <220> FEATURE:  
 251 <221> NAME/KEY: misc\_feature  
 252 <222> LOCATION: (154)..(154)  
 253 <223> OTHER INFORMATION: Xaa at location 154 stands for Lys, Asn, Arg, Ser, Thr, Ile,  
 Met,  
 254 Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys or Phe  
 256 <220> FEATURE:  
 257 <221> NAME/KEY: misc\_feature  
 258 <222> LOCATION: (156)..(156)  
 259 <223> OTHER INFORMATION: Xaa at location 156 stands for Lys, Asn, Arg, Ser, Thr, Ile,  
 Met,  
 260 Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys or Phe  
 262 <220> FEATURE:  
 263 <221> NAME/KEY: misc\_feature  
 264 <222> LOCATION: (179)..(179)  
 265 <223> OTHER INFORMATION: Xaa at location 179 stands for Lys, Asn, Arg, Ser, Thr, Ile,  
 Met,  
 266 Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys or Phe  
 268 <220> FEATURE:  
 269 <221> NAME/KEY: misc\_feature  
 270 <222> LOCATION: (195)..(195)  
 271 <223> OTHER INFORMATION: Xaa at location 195 stands for Lys, Asn, Arg, Ser, Thr, Ile,  
 Met,  
 272 Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys or Phe  
 274 <400> SEQUENCE: 2  
 W--> 276 Glu Glu Ala Xaa Gly Lys Val Val Gln Asp Ile Met Pro Xaa Leu His  
 277 1 5 10 15  
 279 Phe Val Lys Gly Glu Glu Lys Glu Pro Ser Lys Glu Xaa Xaa Ser Gly  
 280 20 25 30  
 282 Thr Lys Lys Leu Ser Glu Glu Val Lys Thr Thr Glu Gln Lys Arg Glu  
 283 35 40 45  
 285 Ala Xaa Lys Xaa Ile Val Arg Ala Thr Lys Gly Ile Ser Gly Ile Lys  
 286 50 55 60  
 288 Asn Glu Leu Val Ala Glu Val Pro Lys Lys Xaa Asp Ile Lys Thr Thr  
 289 65 70 75 80  
 291 Leu Pro Pro Ile Thr Ala Asp Phe Asp Cys Xaa Lys Ile Gln Ser Thr  
 292 85 90 95  
 294 Ile Phe Arg Gly Tyr Tyr Gly Phe Gln Glu Thr Xaa Gly Thr Met Val  
 295 100 105 110  
 297 Arg Ala Leu Met Pro Xaa Leu Pro Phe Val Gln Gly Lys Glu Lys Glu  
 298 115 120 125  
 300 Pro Ser Lys Gly Xaa Xaa Ser Gly Ala Lys Arg Leu Asp Gly Glu Thr  
 301 130 135 140  
 303 Lys Thr Gly Pro Gln Arg Val His Ala Xaa Glu Xaa Ile Gln Thr Ala  
 304 145 150 155 160  
 306 Met Lys Thr Tyr Ser Asp Ile Asp Gly Lys Leu Val Ser Glu Val Pro  
 307 165 170 175  
 309 Lys His Xaa Gly Ile Val Asp Ser Lys Leu Pro Pro Ile Asp Val Asn  
 310 180 185 190  
 312 Met Asp Xaa Lys Thr Val Gly Val Val Pro Arg Gln Pro Gln Leu Pro  
 313 195 200 205  
 315 Val Ser Leu Arg His Gly Pro Val Thr Gly Pro Ser Asp Pro Ala His

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/06/2006  
PATENT APPLICATION: US/10/590,940 TIME: 18:58:07

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF4\09062006\J590940.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 10,11,12,40,41,42,85,86,-87,-88,89,90,148,-149,-150,154,-155,-156  
Seq#:1; N Pos. 223,-224,-225,271,-272,-273,-322,-323,-324,352,353,-354,397,-398,-399-  
Seq#:1; N Pos. 400,-401,-402,-460,-461,-462,-466,-467,-468,535,-536,-537,583,-584,-585-  
Seq#:1; Xaa Pos. 4,14,29,30,50,52,75,91,108,118,133,134,154,156,-179,195  
Seq#:2; Xaa Pos. 4,14,29,30,50,52,75,91,108,118,133,134,154,156,179,195

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/590,940

DATE: 09/06/2006

TIME: 18:58:07

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09062006\J590940.raw

L:14 M:270 C: Current Application Number differs, Wrong Format  
L:108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
M:341 Repeated in SeqNo=1  
L:276 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
M:341 Repeated in SeqNo=2  
L:482 M:283 W: Missing Blank Line separator, <220> field identifier

## **Raw Sequence Listing before editing (for reference only)**



IFWP

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/590,940

DATE: 09/06/2006  
TIME: 10:23:41

Input Set : A:\Sequence Listing.txt  
Output Set: N:\CRF4\09062006\J590940.raw

3 <110> APPLICANT: Consiglio Nazionale delle Ricerche  
4 Domenico GERACI  
5 Angela BONURA  
6 Paolo COLOMBO  
8 <120> TITLE OF INVENTION: Fusion proteins comprising modified allergens of the NS-LTPS  
9 family, use thereof and pharmaceutical compositions comprising  
10 the same  
12 <130> FILE REFERENCE: 4161-18 / BW352R  
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/590,940  
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18 <151> PRIOR FILING DATE: 2005-02-28  
20 <150> PRIOR APPLICATION NUMBER: IT RM2004A000103  
21 <151> PRIOR FILING DATE: 2004-02-27  
23 <160> NUMBER OF SEQ ID NOS: 7  
25 <170> SOFTWARE: MS Word

## ERRORED SEQUENCES

325 <210> SEQ ID NO: 3  
326 <211> LENGTH: 732  
327 <212> TYPE: DNA  
328 <213> ORGANISM: Parietaria judaica *Insert* *(2207)*  
329 <221> NAME/KEY: CDS  
330 <222> LOCATION: (1)..(729)  
E--> 332 <400> SEQUENCE: 3  
334 gag gag gct agc ggg aaa gtg gtg cag gat ata atg ccg tgc ctg cat 48  
335 Glu Glu Ala Ser Gly Lys Val Val Gln Asp Ile Met Pro Cys Leu His  
336 1 5 10 15  
338 ttc gtg aag ggg gag gag aag gag ccg tcg aag gag agc agc agc ggc 96  
339 Phe Val Lys Gly Glu Glu Lys Glu Pro Ser Lys Glu Ser Ser Ser Gly  
340 20 25 30  
342 acg aag aag ctg agc gag gag gtg aag acg acg gag cag aag agg gag 144  
343 Thr Lys Lys Leu Ser Glu Glu Val Lys Thr Thr Glu Gln Lys Arg Glu  
344 35 40 45  
346 gcc tgc aag tgc ata gtg cgc gcc acg aag ggc atc tcc ggt atc aaa 192  
347 Ala Cys Lys Cys Ile Val Arg Ala Thr Lys Gly Ile Ser Gly Ile Lys  
348 50 55 60  
350 aat gaa ctt gtc gcc gag gtc ccc aag aag tgc gat att aag acc act 240  
351 Asn Glu Leu Val Ala Glu Val Pro Lys Lys Cys Asp Ile Lys Thr Thr  
352 65 70 75 80  
354 ctc ccg ccc atc acc gcc gac ttc gac tcc aag atc caa agt act 288

*Does Not Comply  
Corrected Diskette Needed*

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/590,940

DATE: 09/06/2006  
TIME: 10:23:41

Input Set : A:\Sequence Listing.txt  
Output Set: N:\CRF4\09062006\J590940.raw

355	Leu	Pro	Pro	Ile	Thr	Ala	Asp	Phe	Asp	Cys	Ser	Lys	Ile	Gln	Ser	Thr			
356																85	90	95	
358	att	ttc	aga	ggt	tac	tat	gga	ttc	caa	gaa	acc	agc	ggg	act	atg	gtg			336
359	Ile	Phe	Arg	Gly	Tyr	Tyr	Gly	Phe	Gln	Glu	Thr	Ser	Gly	Thr	Met	Val			
360																100	105	110	
362	aga	gca	ctg	atg	ccg	tgc	ctg	ccg	ttc	gtg	cag	ggg	aaa	gag	aaa	gag			384
363	Arg	Ala	Leu	Met	Pro	Cys	Leu	Pro	Phe	Val	Gln	Gly	Lys	Glu	Lys	Glu			
364																115	120	125	
366	ccg	tca	aag	ggg	agc	agc	ggc	gcc	aaa	aga	ttg	gac	ggg	gag	acg			432	
367	Pro	Ser	Lys	Gly	Ser	Ser	Gly	Ala	Lys	Arg	Leu	Asp	Gly	Glu	Thr				
368																130	135	140	
370	aag	acg	ggg	ccg	cag	agg	gtg	cac	gct	tgt	gag	tgc	atc	cag	acc	gcc			480
371	Lys	Thr	Gly	Pro	Gln	Arg	Val	His	Ala	Cys	Glu	Cys	Ile	Gln	Thr	Ala			
372																145	150	155	160
374	atg	aag	act	tat	tcc	gac	atc	gac	ggg	aaa	ctc	gtc	agc	gag	gtc	ccc			528
375	Met	Lys	Thr	Tyr	Ser	Asp	Ile	Asp	Gly	Lys	Leu	Val	Ser	Glu	Val	Pro			
376																165	170	175	
378	aag	cac	tgc	ggc	atc	gtt	gac	agc	aag	ctc	ccg	ccc	att	gac	gtc	aac			576
379	Lys	His	Cys	Gly	Ile	Val	Asp	Ser	Lys	Leu	Pro	Pro	Ile	Asp	Val	Asn			
380																180	185	190	
382	atg	gac	tgc	aag	aca	gtt	gga	gtg	gtt	cct	cg	caa	ccc	caa	ctt	cca			624
383	Met	Asp	Cys	Lys	Thr	Val	Gly	Val	Val	Pro	Arg	Gln	Pro	Gln	Leu	Pro			
384																195	200	205	
386	gtc	tct	ctc	cgt	cat	gg	ccc	gtc	acg	ggc	cca	agt	gat	ccc	gcc	cac			672
387	Val	Ser	Leu	Arg	His	Gly	Pro	Val	Thr	Gly	Pro	Ser	Asp	Pro	Ala	His			
388																210	215	220	
390	aaa	gca	cg	ttg	gag	aga	ccc	cag	att	aga	gtt	ccg	ccc	ccc	gca	ccg			720
391	Lys	Ala	Arg	Leu	Glu	Arg	Pro	Gln	Ile	Arg	Val	Pro	Pro	Pro	Ala	Pro			
392																225	230	235	240
394	gaa	aaa	gcc	taa															732
395	Glu	Lys	Ala																

VERIFICATION SUMMARY DATE: 09/06/2006  
PATENT APPLICATION: US/10/590,940 TIME: 10:23:42

Input Set : A:\Sequence Listing.txt  
Output Set: N:\CRF4\09062006\J590940.raw

L:14 M:270 C: Current Application Number differs, Wrong Format  
L:108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:48  
L:112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:48  
L:113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:96  
L:120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:144  
L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:192  
L:124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:192  
L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:240  
L:128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:240  
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:288  
L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:288  
L:133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:336  
L:136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:336  
L:137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:384  
L:140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:384  
L:141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:432  
L:144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:432  
L:145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:480  
L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:528  
L:153 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:576  
L:156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:576  
L:157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:624  
L:276 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:16  
L:285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:48  
L:288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:64  
L:291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:80  
L:294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:96  
L:297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:112  
L:300 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:128  
L:303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:144  
L:309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:176  
L:312 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:192  
L:332 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:3  
L:480 M:283 W: Missing Blank Line separator, <220> field identifier